

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/043005 A1

(51) International Patent Classification⁷: F16G 13/06, 13/18, 13/10, B62M 9/00, 9/02

(74) Agent: NERI, Luciano; Bugnion S.p.A., Via Emilia Est, 25, I-41100 Modena (IT).

(21) International Application Number:
PCT/IB2004/003323

(22) International Filing Date: 12 October 2004 (12.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MO2003A000295 30 October 2003 (30.10.2003) IT

(71) Applicants (for all designated States except US): PRO 2 S.R.L. [IT/IT]; Via Giotto, 415/1, I-41100 Modena (IT). L.A.M. S.R.L. [IT/IT]; Via Masera di Sotto, 33/35, I-41058 Spilamberto (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RIGHI, Ermanno [IT/IT]; Via Giotto, 415/1, I-41100 Modena (IT). MON-TANARI, Sandro [IT/IT]; Via L. Manni, 5, I-41043 Formigine (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

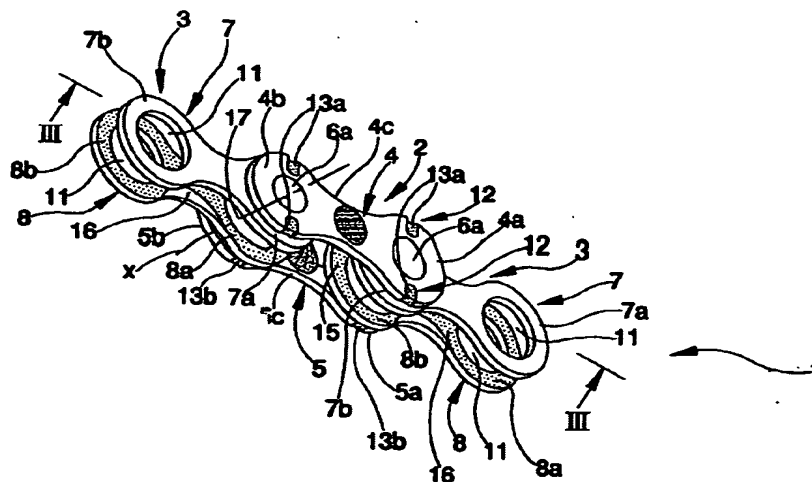
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: AN ARTICULATED CHAIN FOR DRIVE TRANSMISSION IN BICYCLES



(57) Abstract: The chain comprises a plurality of external links (2), each defined by a pair of parallel external plates (4, 5) and by two rotation pivots (6) interpositioned between the two external plates (4, 5). The chain also comprises a plurality of internal links (3), each defined by a pair of parallel internal plates (7, 8) and by two bushes (9) interpositioned between the plates and each internal link (3). Each of the rotation pivots (6) is inserted coaxially in a bush (9) and so defines an alternated succession of external links (2) and internal links (3) and defines with the bush (9) a spherical coupling surface. The chain also comprises anti-rotation elements (12) for reducing a possibility of rotation with respect to an alignment direction of each pair of adjacent links (2, 3).